

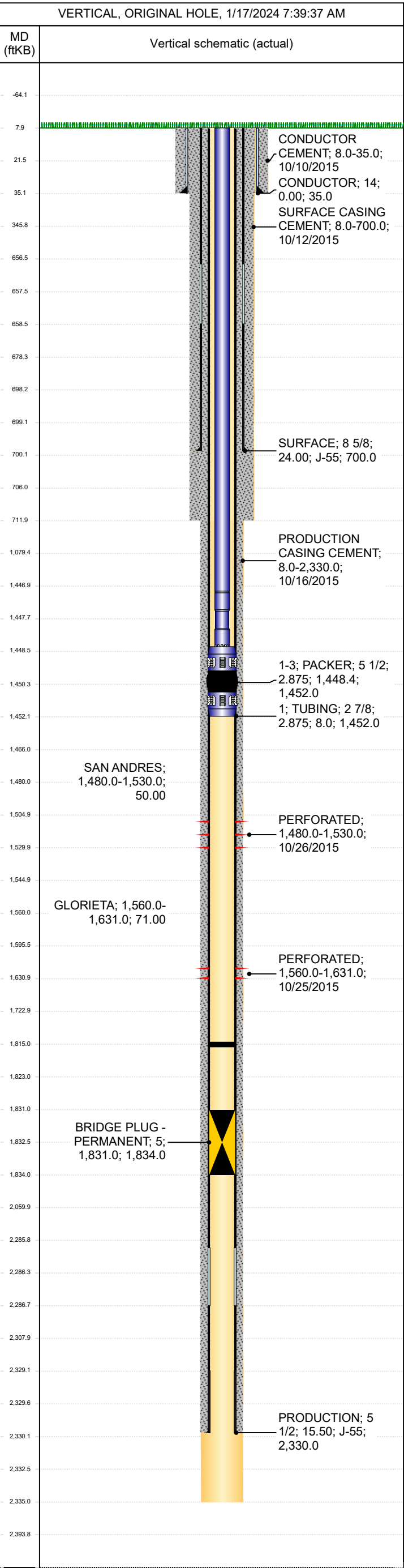


BREITBURN OPERATING LP 1930 SWD 12-4-G

Wellbore Diagram

Well Header					
API # 3002120692		State NM		County HARDING	
Division ANADARKO		Business Unit MIDCON		District 04 - SANTA FE	
		Region RG_GREATER_POSTLE		Area A_LIBBY_RANCH	
				Total Depth (ftKB) 2,335.0	

Wellbore Sections												
Section Des		Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)	Start Date		End Date			
CONDUCTOR		17 1/2	8.0	8.0	35.0	35.0	10/10/2015		10/10/2015			
SURFACE		12 1/4	35.0	35.0	712.0	712.0	10/10/2015		10/11/2015			
PRODUCTION		7 7/8	712.0	712.0	2,335.0	2,334.9	10/13/2015		10/15/2015			
Casing Strings												
Casing String: CONDUCTOR 14" Set Depth: 35.0												
Casing Description CONDUCTOR		Run Date 10/10/2015 03:00	OD (in) 14	OD Nom M... 14	ID (in)	ID Nom Mi...	Wt/Len (lb/ft)	String Grade	Length (ft) 42.00	Top (ftKB) -7.0	Set Depth...	
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
CONDUCTOR PIPE		1	14				42.00	1	-7.0	35.0		35.0
Casing String: SURFACE 8 5/8" Set Depth: 700.0												
Casing Description SURFACE		Run Date 10/12/2015 06:00	OD (in) 8 5/8	OD Nom M... 8 5/8	ID (in)	ID Nom Mi...	Wt/Len (lb/ft) 24.00	String Grade J-55	Length (ft) 710.00	Top (ftKB) -10.0	Set Depth...	
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
CASING JOINTS		17	8 5/8		24.00	J-55	666.62	17	-10.0	656.6		656.6
FLOAT COLLAR		1	8 5/8		24.00	J-55	1.80	1	656.6	658.4	656.6	658.4
CASING JOINTS		1	8 5/8		24.00	J-55	39.78	1	658.4	698.2	658.4	698.2
INSERT FLOAT SHOE		1	8 5/8		24.00	J-55	1.80	1	698.2	700.0	698.2	700.0
Casing String: PRODUCTION 5 1/2" Set Depth: 2,330.0												
Casing Description PRODUCTION		Run Date 10/16/2015 08:00	OD (in) 5 1/2	OD Nom M... 5 1/2	ID (in)	ID Nom Mi...	Wt/Len (lb/ft) 15.50	String Grade J-55	Length (ft) 2,329.94	Top (ftKB) 0.1	Set Depth...	
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
PRODUCTION CASING		55	5 1/2		15.50	J-55	2,285.82	55	0.1	2,285.9	0.1	2,285.8
FLOAT COLLAR		1	5 1/2		15.50	J-55	1.00	1	2,285.9	2,286.9	2,285.8	2,286.8
CASING JOINTS		1	5 1/2		15.50	J-55	42.12	1	2,286.9	2,329.0	2,286.8	2,328.9
INSERT FLOAT SHOE		1	5 1/2		15.50	J-55	1.00	1	2,329.0	2,330.0	2,328.9	2,329.9
Cement												
CONDUCTOR CEMENT												
Cementing Start Date 10/10/2015 03:00			Cementing End Date 10/10/2015 03:30				String CONDUCTOR, 35.0ftKB					
Stg #	Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)	
1	10/10/2015		10/10/2015		8.0		35.0		8.0		35.0	
SURFACE CASING CEMENT												
Cementing Start Date 10/12/2015 04:30			Cementing End Date 10/12/2015 05:00				String SURFACE, 700.0ftKB					
Stg #	Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)	
1	10/12/2015		10/12/2015		8.0		700.0		8.0		700.0	
PRODUCTION CASING CEMENT												
Cementing Start Date 10/16/2015 10:00			Cementing End Date 10/16/2015 10:45				String PRODUCTION, 2,330.0ftKB					
Stg #	Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)	
	10/16/2015		10/16/2015		8.0		2,330.0		8.0		2,329.9	
Tubing Strings												
Set Depth: 1,452.0												
Run Job INITIAL COMPLETION, 10/17/2015 06:00		String PRODUCTION, 2,330.0ftKB		String Ma... 2 7/8	OD Nom... 5 1/2	ID (in)	ID Nom M... 2 7/8	Wt (lb/ft)	String Grade	Top (ftKB) 8.0	Set Depth... 1,451.9	Len (ft) 1,444.0
Item Des		Len (ft)	OD (in)	ID (in)	Wt (lb/ft)	Grade	Tally Jts Run	Tally Len (ft)	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
TUBING		1,439.0 0	2 7/8				0		8.0	1,447.0	8.0	1,446.9
ON-OFF TOOL		1.38	2 7/8				0		1,447.0	1,448.4	1,446.9	1,448.3
PACKER		3.62	5 1/2	2.88			0		1,448.4	1,452.0	1,448.3	1,451.9
Rod Strings												
Set Depth: <Set Depth?>												
Rod Description		Set De...	Run Date	Run Job		OD (in)	Wt (lb/ft)	String Gr...	Top (ft...	Set De...	Set De...	String Components
Length (ft)	OD Nominal (in)		Quantity	ID (in)		Weight/Length (lb/ft)		Grade		Top Depth (ftKB)		Bottom Depth (ftKB)
Perforations												
Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)		Shot Dens (shots/ft)	Calculated Shot Total	Btm - Top (ft)
10/26/2015 06:00		1480		1530		1480		1530			1	50
10/25/2015 06:00		1560		1631		1560		1631			1	71
Deviation Surveys												
Date 10/11/2015				Description teledrift					Job INITIAL DRILL, 10/9/2015 19:30			
Survey Data												
MD (ftKB)	Incl (°)	Azm (°)	Method	TVD (ftKB)	VS (ft)	Depart (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)
0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
260.00	0.70		Incl	259.99						0.27		1.59
500.00	1.30		Incl	499.99						0.25		5.78
982.00	3.30		Incl	981.89						0.41		25.12
1,350.00	3.40		Incl	1,349.89						0.03		46.62
1,650.00	3.10		Incl	1,649.89						-0.10		63.63
1,950.00	4.00		Incl	1,949.88						0.30		82.21
2,335.00	4.70		Incl	2,334.87						0.18		111.41
Date				Description					Job			
Survey Data												
MD (ftKB)	Incl (°)	Azm (°)	Method	TVD (ftKB)	VS (ft)	Depart (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Build (°/100ft)	Turn (°/100ft)	Unwrap Displace (ft)



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 304388

CONDITIONS

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 304388
	Action Type: [UF-WBS] Wellbore Schematic (WELLBORE SCHEMATICS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	12/4/2024